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TITLE: FLUORORESIN COATING COMPOSITION

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ABSTRACT:

PURPOSE: To make it possible to improve the dispersibility of an inorganic pigment and/or a thickener in fluororesin and to give them excellent tinting strength, color development, hiding power, gloss, etc., in a fluororesin coating composition by surface-treating the inorganic pigment and/or the thickener with a fluorosilane compound.

CONSTITUTION: An inorganic pigment (e.g. titanium oxide) and a thickener (e.g. ultrafine silica powder) are surface-treated with a fluorosilane compound (coating weight of 0.1-20wt.%) of formula I:
$$R<SB>f</SB>(CH<SB>2</SB>)<SB>n</SB>Y(CH<SB>2</SB>)<SB>m</SB>SiX<SB>S</SB>$$

or
formula II:
$$C<SB>8</SB>H<SB>17</SB>SO<SB>2</SB>NR'$$

(
$$(CH<SB>2</SB>)<SB>3</SB>SiX<SB>3</SB>$$
 (wherein $R<SB>f</SB>$ is a 1-20C perfluoroalkyl, Y is $-CH<SB>2</SB>-$, $-CH<SB>2</SB>O-$, $-NR-$, $-CO<SB>2</SB>-$, $-CONR-$, $-S-$, $-SO<SB>2</SB>$ or $-SO<SB>2</SB>NR-$, R is H, a 1-6C alkyl, R' is a 1-6C alkyl, X is Cl, Br, $OCR<SB>3</SB>$ or $OC<SB>2</SB>H<SB>5</SB>$, and n and m are each 0-3), and these surface-treated components are added to

a fluoro-resin
to obtain a coating composition.

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